**3GPP TSG-RAN WG4 Meeting #98-e R4-2100954**

**Online, 25th Jan - 5th Feb, 2021**

**Source:** Samsung, KDDI

**Title:** TP for TR 38.717-03-01: CA\_n3A-n28A-n78(2A)

**Agenda item:**  9.9.2

**Document for:** Approval

1. Introduction

This contribution is a text proposal for TR 38.717-03-01 to include CA\_n3A-n28A-n78(2A) according to the request in [1].

# 2. Reference

1. RP-202720, Revised WID: Rel-17 NR inter-band CA for 3 bands DL with 1 band UL.

3. Text Proposal

**<Start of Text Proposal>**

## 6.x CA\_n3-n28-n78

### 6.x.1 Operating bands for CA

Table 6.x.1-1: 3DL Inter-band CA operating bands

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NR CA Band** | **NR Band** | **Uplink (UL) operating band** | | | **Downlink (DL) operating band** | | | **Duplex Mode** |
| **BS receive / UE transmit** | | | **BS transmit / UE receive** | | |
| **FUL\_low – FUL\_high** | | | **FDL\_low – FDL\_high** | | |
| CA\_n3-n28-n78 | n3 | 1710MHz | – | 1780MHz | 1805MHz | – | 1880MHz | FDD |
| n28 | 703MHz | – | 748MHz | 758MHz | – | 803MHz | FDD |
| n78 | 3300MHz | – | 3800MHz | 3300MHz | – | 3800MHz | TDD |

### 6.x.2 Channel bandwidths per operating band for CA

Table 6.x.2-1: Supported channel bandwidths per CA configuration for 3DL inter-band CA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NR CA Configuration** | **UL Config** | **NR Band** | **SCS [kHz]** | **5** | **10** | **15** | **20** | **25** | **30** | **40** | **50** | **60** | **70** | **80** | **90** | **100** | **Bandwidth combination set** |
| CA\_n3A-n28A-n78(2A) | CA\_n78(2A) | n3 | 15 | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 0 |
|  | 30 |  | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  |
|  | 60 |  | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  |
| n28 | 15 | Yes | Yes | Yes | Yes |  | Yes |  |  |  |  |  |  |  |
|  | 30 |  | Yes | Yes | Yes |  | Yes |  |  |  |  |  |  |  |
|  | 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| n78 | See CA\_n78(2A) Bandwidth Combination Set 2 in Table 5.5A.2-1 in TS 38.101-1 | | | | | | | | | | | | | |

NOTE: For the UE that signals support of any bandwidth combination set for carrier aggregation, the UE shall support all single carrier bandwidths for the constituent bands as defined in Table 5.3.5-1 of TS 38.101-1 [3] and in Table 5.3.5-1 of TS 38.101-2 when operating in single carrier mode.

### 6.x.3 Co-existence studies

For 3DL/1UL NR CA, only, only harmonic issue and harmonic mixing issue need to be considered. There is no in this band combination MSD issue.

### 6.x.4 ∆TIB,c and ∆RIB,c values

For CA\_n3-n28-n78, the ΔTIB,c and ΔRIB,c values have been defined in TS 38.101-1.

### 6.x.5 REFSENS requirements

MSD requirements are captured in lower order combinations.

<End of Text Proposal>